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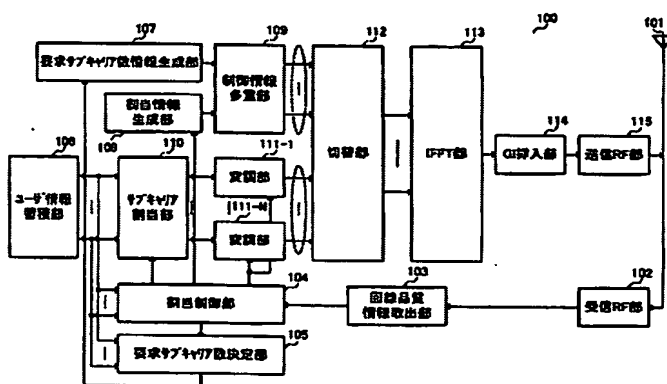
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(54) Title: RADIO COMMUNICATION APPARATUS AND SUBCARRIER ASSIGNMENT METHOD

(54) 発明の名称: 無線通信装置及びサブキャリア割り当て方法



- 107... REQUEST SUBCARRIER NUMBER INFORMATION GENERATING PART
108... ASSIGNMENT INFORMATION GENERATING PART
109... CONTROL INFORMATION MULTIPLEXING PART
112... SWITCH PART
113... IFFT PART
114... GI INSERTING PART
115... TRANSMISSION RF PART
106... USER INFORMATION STORING PART
110... SUBCARRIER ASSIGNING PART
111-1... MODULATING PART
111-N... MODULATING PART
104... ASSIGNMENT CONTROL PART
105... REQUEST SUBCARRIER NUMBER DECIDING PART
103... LINE QUALITY INFORMATION EXTRACTING PART
102... RECEPTION RF PART

(57) Abstract: A radio communication apparatus wherein the amount of control information to be transmitted is reduced so as to improve the communication efficiency. In the apparatus, a line quality information extracting part (103) extracts CQI from received signals. An assignment control part (104) assigns, based on the CQI and request transmission rate information of the communication terminal apparatus of each user, a subcarrier to each communication terminal apparatus such that the request transmission rate of each communication terminal apparatus is satisfied, and further selects a modulation scheme. A request subcarrier number deciding part (105) decides, based on the request transmission rate information of the communication terminal apparatus of each user, the number of subcarriers to be assigned to the communication terminal apparatuses such that the request transmission rate of each communication terminal apparatus is satisfied. A request subcarrier number information generating part (107) generates information of the number of the subcarriers assigned to the communication terminal apparatuses. A subcarrier assigning part (110) assigns packet data to the selected subcarriers. Modulating parts (111-1 to 111-N) perform adaptive modulations of the packet data assigned to the subcarriers.

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